

fine-filtering the digitized information to obtain the signals in digital form.

17. (Amended) The method of claim 16, further comprising:

post-filtering the frequency baseband using one or more of a low-pass filter, a high-pass filter, and a high-pass/low-pass filter combination, the post-filtering having a cut-off frequency that is matched to one or more of the carrier frequency and the intermediate frequency.

18. (Amended) The method of claim 16, further comprising:

amplifying the second signal frequency band after post-filtering has been at least partially performed.

19. (Amended) The method of claim 16, further comprising:

setting the carrier frequency to split off a neighboring frequency band of the second subfrequency band during prefiltering.

20. (Amended) The method of claim 16, further comprising:

digitizing the first signal frequency band wherein the frequency baseband is generated via digital demodulation.

21. (Amended) The method of claim 16, further comprising:

performing one of a high-pass filtering and a combination of high-pass and low-pass filtering to filter out at least one subfrequency band in a range of the frequency baseband;

digitizing the filtered subfrequency band; and

converting the digitized subfrequency band into a frequency range which contains a zero frequency value.

22. (Amended) A receiver for receiving signals transmitted in subfrequency bands of a receive frequency band, comprising:

a first oscillator to insert a carrier frequency into a receive path of the receive frequency band;

a prefilter to filter a first frequency band containing the signals out of the receive frequency band with the carrier frequency;

a second oscillator to insert an intermediate frequency into a first signal path of the first frequency band;

a demodulator to demodulate the first frequency band with the intermediate frequency to generate a frequency baseband containing the signals; and

a post-filter to filter a second signal frequency band containing the signals out of the frequency baseband.

23. (Amended) The receiver of claim 22, wherein:

the post-filter includes one of a low-pass filter, a high-pass filter and a high-pass/low-pass filter combination, the post-filter having a cut-off frequency matched to at least one of the carrier frequency and the intermediate frequency to separate the second subfrequency band from neighboring frequency bands in the frequency baseband.

24. (Amended) The receiver of claim 28, wherein:

the second signal band amplifier and at least a part of the post-filter are arranged in a common integrated circuit.

25. (Amended) The receiver of claim 28, further comprising:

a bypass connected in parallel with the second signal band amplifier for unamplified forwarding of the second frequency band.

26. (Amended) The receiver of claim 22, wherein:

the demodulator and at least a part of the post-filter are arranged in a common integrated circuit.

27. (Amended) The receiver of claim 22, further comprising:

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an analog/digital converter.--

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Add claim 28.

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-- 28. (New) The receiver of claim 22, wherein the post-filter includes:

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a common frequency and post-filter control to match one of the carrier frequency  
and the intermediate frequency to at least one filter parameter to provide the second  
frequency band;

a second signal band amplifier to amplify the second frequency band;  
an analog/digital converter to digitize information in the second frequency band ; and  
a digital filter to filter the signals out of the digitized information. --

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